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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,277	07/08/2003	Haruyoshi Ono	030824	7735	
		03/18/2010 ATTORI, DANIELS & ADRIAN, LLP		EXAMINER	
1250 CONNECTICUT AVENUE, NW			VAN ROY, TOD THOMAS		
SUITE 700 WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER		
			2828		
			NOTIFICATION DATE	DELIVERY MODE	
			03/18/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

	Application No.	Applicant(s)				
Office Action Commence	10/614,277	ONO ET AL.				
Office Action Summary	Examiner	Art Unit				
	TOD T. VAN ROY	2828				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailing to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 Ja	nuary 2010.					
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>9-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<u> </u>	priority under 25 H.S.C. S. 110(a)	(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
<i>,</i> — ,— ,—						
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Oce the attached detailed Office action for a list of the certified copies flot received.						
Attech mont/o						
Attachment(s) 1) \(\sum \) Notice of References Cited (PTO-892)	4) Intoniou Summary	(PTO 413)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)						
Paper No(s)/Mail Date 6) L Other:						

DETAILED ACTION

Response to Amendment

The examiner acknowledges the amending of claims 9, 14, 19, and 24.

Response to Arguments

Applicant's arguments filed 01/22/2010 have been fully considered but they are not persuasive.

The Applicant has argued that it is unobvious to change a setting value.

The Examiner notes that changing a setting point is commonly performed in the art to adapt for changes in operating environment or needed output power levels.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 19-23 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 19 outlines a program product for causing a computer to generate a setting value without physical representation of that product (on a recordable medium etc.). The claim is therefor a judicial exception.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 9-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's disclosed prior art (hereafter 'prior art').

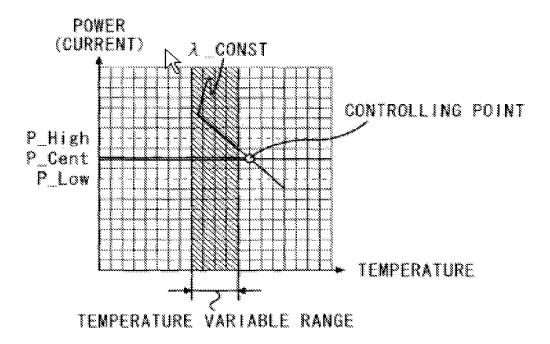
With respect to claims 9 and 19, the prior art teaches a setting value generating device that generates such a setting value that causes laser light emitted from a laser module to have a predetermined wavelength (lambda target, spec. pg.4 line 17) by wavelength tuning using a wavelength locker module in a measurement system (spec. pgs.1-2 lines 36-2) and satisfies predetermined temperature conditions and predetermined power intensity conditions (fig.3a, defined temp / power ranges), the setting value generating device comprising: an optimum power intensity calculating unit (fig.1 #120) that calculates an optimum power intensity setting range (fig.3a) the predetermined wavelength is maintained, the optimum power intensity setting range being a continuous part of a predetermined power intensity variable range (range can be considered equal to the intensity setting range, fig.3a) (maintained via APC feedback); an optimum temperature calculating unit (fig.1 #120) that calculates an optimum temperature setting range (fig.3a, pgs.4-5 lines 37-9) in which the temperature

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can be adjusted (pg.5 lines 18-25) while the predetermined wavelength is maintained, the optimum temperature setting range being a continuous part of a predetermined temperature variable range (range can be considered equal to the optimum range, fig.3a); and a setting value generating unit (fig.1 #120) that generates the setting value based on both the optimum power intensity setting range (optimum is P cent) calculated by the optimum power intensity calculating unit and the optimum temperature setting range calculated by the optimum temperature calculating unit (setting values generated based on temp/wavelength/power, pg.6 lines 17-21), wherein the laser module can be operated with the setting value that is located within both the continuous part of the predetermined temperature setting range and the continuous part of the predetermined power intensity setting range (as they are equal) even when the laser module operates outside of the predetermined temperature variable range at center value of the predetermined power intensity variable range while the laser light is kept at the predetermined wavelength (As described at pgs.3-7 of the disclosure and figs.2/3b, the AAPA is shown to follow the steps of setting initial values S11 and later continuing to test the actual wavelength S22, as the device operates with given setting values in place it is possible that step S22 takes place upon drifting over time to a controlling point outside of the temperature variable range but still at P cent and on the predetermined wavelength shown in fig.3b, at this point the S22 step can be preformed, obtaining zero error, and allowing the device, however briefly, to continue to operate with the given initial setting values while the temperature is outside of the temperature variable range).

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The prior art does not teach the setting value to have a power different from a center value of the predetermined intensity variable range (prior art sets the value at P_cent, fig.2 S13) alluding to adjustability of the power intensity. It would have been obvious to one of ordinary skill in the art at the time of the invention to adjust the automatic power control (APC) setting value to be a value other than the central power value as a matter of engineering design choice, which would allow for values of increased, or decreased, power to be used during varied operating conditions to provide clear output signals.

With respect to claims 10 and 20, the prior art teaches a relational expression defining unit (fig.1 #120) that defines a relational expression between a temperature and a power intensity that causes the laser module to maintain the predetermined wavelength (T_cal defined on pg.4, relating temperature, wavelength, and inherently relating the power intensity as the power intensity applied to the device influences both the temperature of the device itself, as well as the wavelength the device is outputting

under the current conditions); a power intensity upper and lower limit defining unit (fig.1 #120, shown defined in fig.3a) that defines an upper limit value and a lower limit value of a power intensity that satisfies the relational expression and also satisfies the predetermined temperature range and the predetermined power intensity range (P_High, P_Low); wherein the optimum power intensity calculating unit calculates the optimum power intensity that is the middle value between the upper limit value and the lower limit value of the power intensity defined by the power intensity upper and lower limit defining unit (see claim 1); and the optimum temperature calculating unit substitutes the optimum power intensity calculated by the optimum power intensity calculating unit in the relational expression defined by the relational expression defining unit (see claim 1, also, the P_cent value is set prior to the temp feedback loop, so the value would be used in the calculation as described in the rejection to claim 1, fig.2 S14).

With respect to claims 11 and 21, the prior art teaches the laser module can vary wavelengths (inherent, set target wavelength would not be necessary if only 1 wavelength were possible), and the setting value is generated in relation with each of the wavelengths (setting value generated with chosen target wavelength).

Claims 12 and 22 are rejected for the reasons outline in the rejections to claims 10 and 11. The prior art has taught the presence of multiple wavelengths being present in the transmitting device, each being stabilized when appropriately selected. It is inherent that there would be a shortest wavelength and a longest wavelength available,

and that the relational expression unit, and power and temperature calculating unit (fig.1 #120) would control the shortest and longest wavelength conditions respectively.

With respect to claims 13 and 23, the prior art teaches a setting value storage unit that stores the setting value generated by the setting value generating unit, wherein the laser module contains unique identification information, and the setting value storage unit relates the setting value to the unique identification information and stores the setting value (pg.6 lines 17-24).

Claims 14-18 are rejected for the same reasons given in the rejection to claims 9-13, as they are the methods for calculating the setting value that has been taught in the prior art.

Claim 24 is rejected for the same reasons given for the rejection to claims 9 and 19 above, as it is inherent that a recording medium of some type must be present for the computer functioning as the calculating unit to run the given program since the program itself must have been recorded to be read by the computer.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TOD T. VAN ROY whose telephone number is (571)272-8447. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun Harvey can be reached on (571)272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tod T Van Roy/ Examiner, Art Unit 2828